

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P527176

Luminaire Tested: **GALN-SA2A-830-U-T2R-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P527176
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-10)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA2A-830-U-T2R-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6422 lumens
Efficiency: N/A
Efficacy: 101.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

Input Watts (W): 63
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



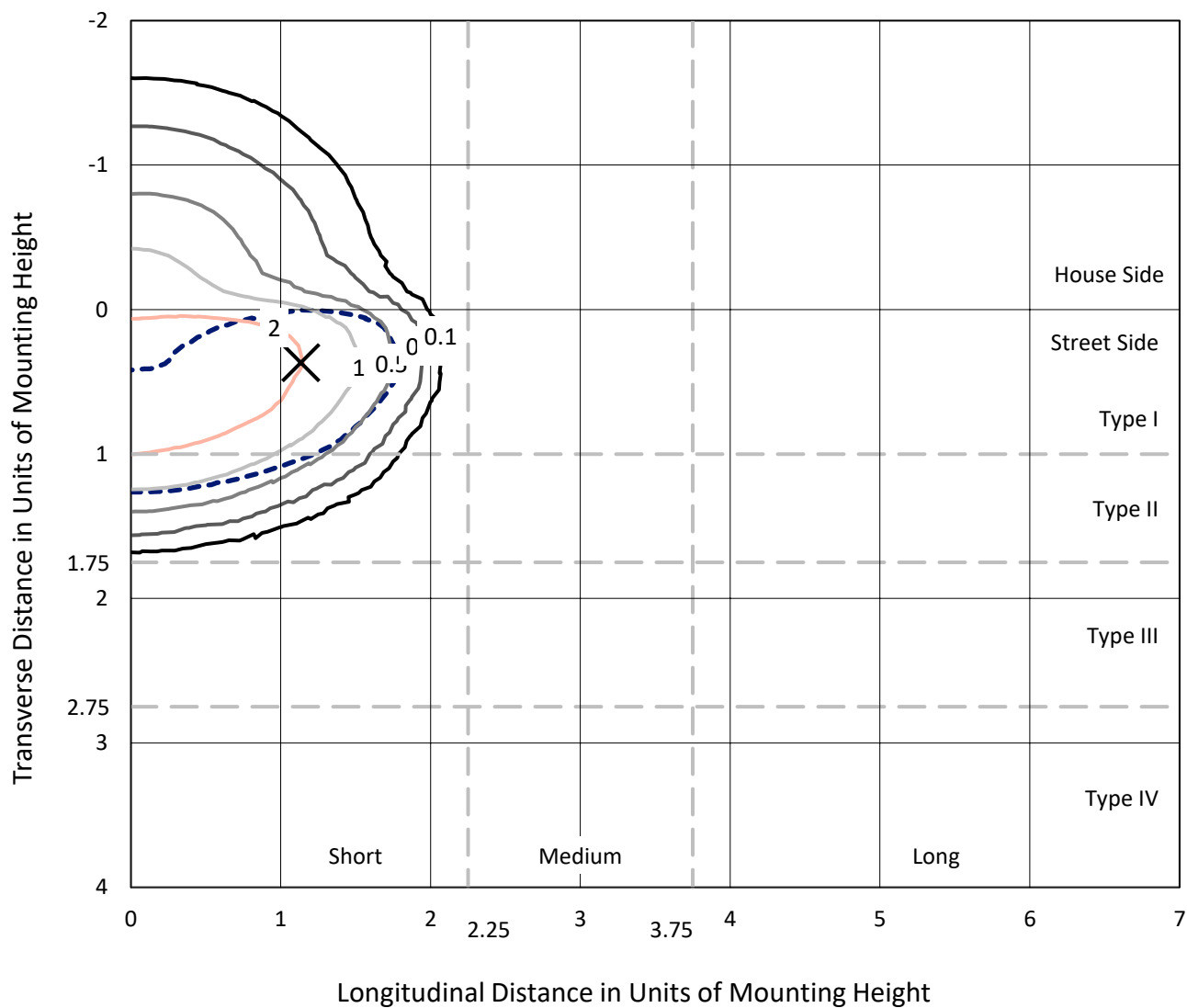
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

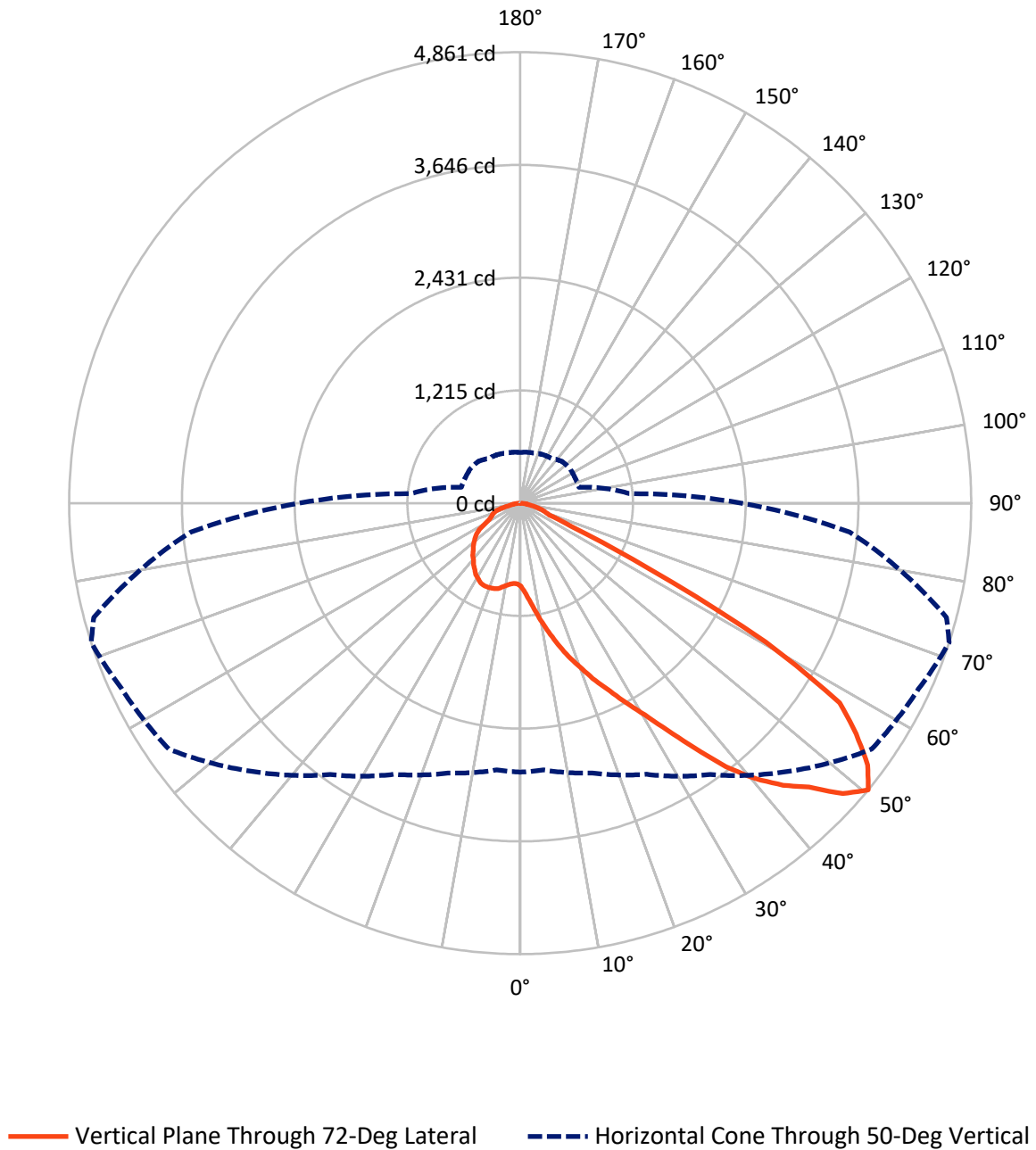
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.2 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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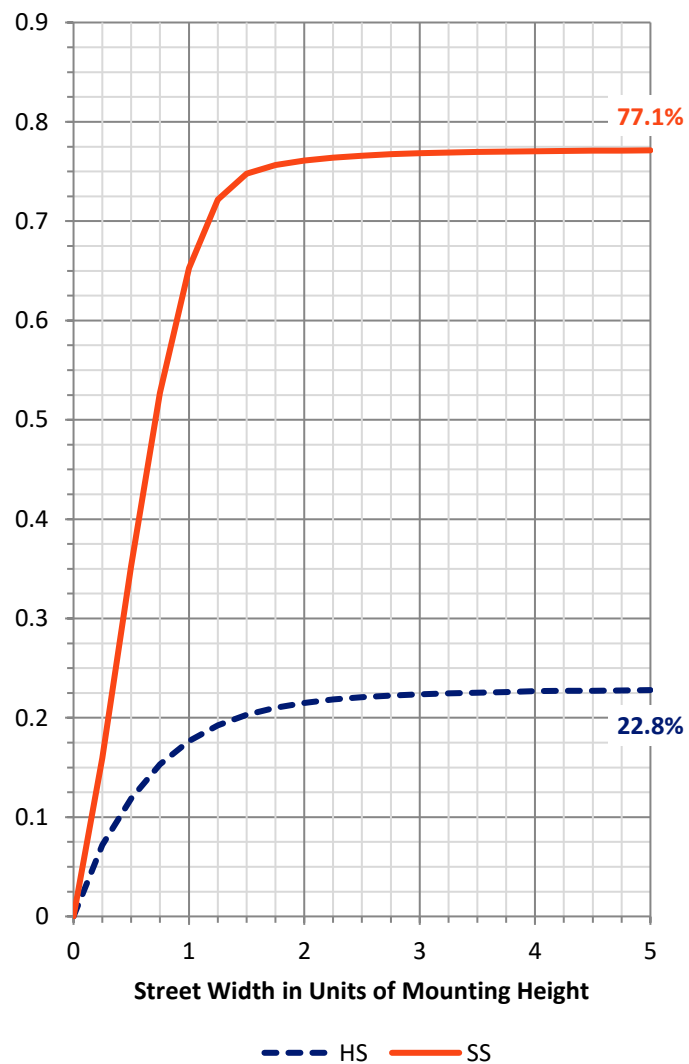
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1471.3	0.0	1471.3
	% Fixture	22.9	0.0	22.9
Street Side	Lumens	4950.7	0.0	4950.7
	% Fixture	77.1	0.0	77.1
Total	Lumens	6422.0	0.0	6422.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	105.2	1.6
10°-20°	393.1	6.1
20°-30°	762.2	11.9
30°-40°	1262.7	19.7
40°-50°	1766.8	27.5
50°-60°	1490.5	23.2
60°-70°	454.3	7.1
70°-80°	159.4	2.5
80°-90°	27.7	0.4
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	6422.0	100.0
0°-180°	6422.0	100.0

Coefficient of Utilization



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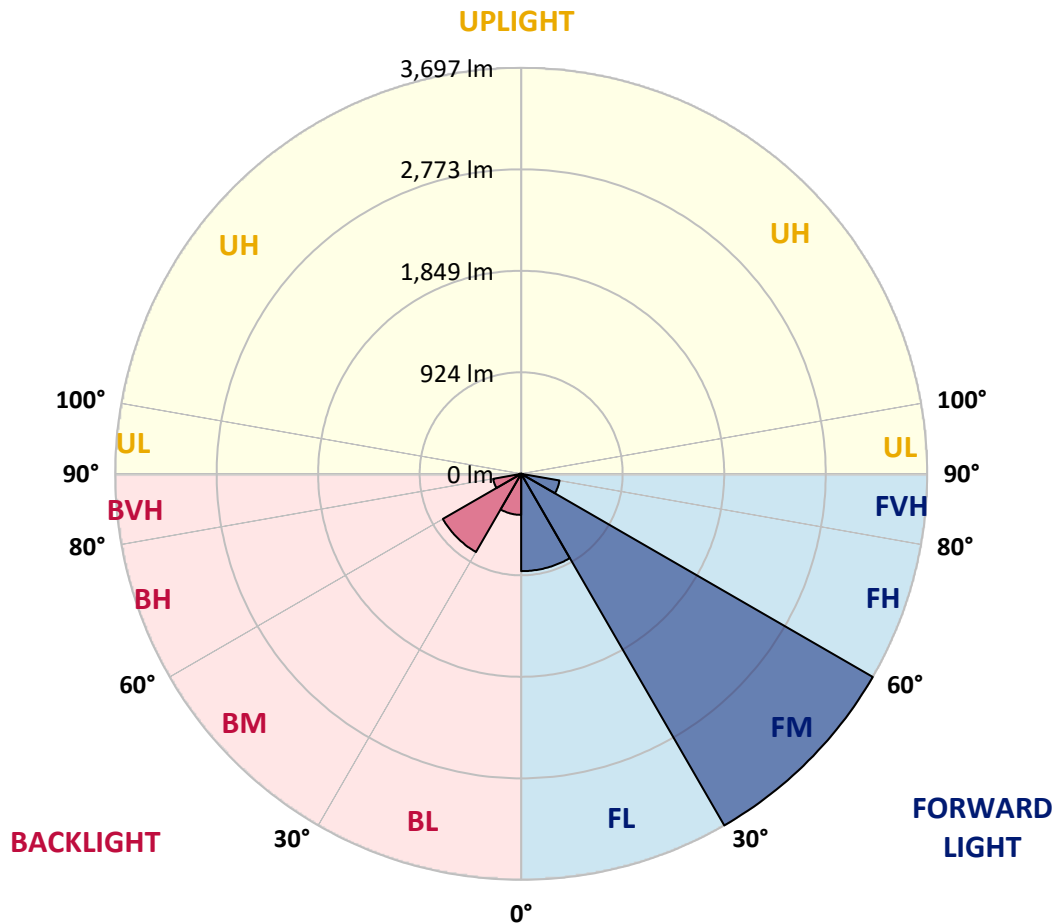
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	886.5	13.8			
FM	(30°-60°)	3697.3	57.6			
FH	(60°-80°)	354.5	5.5			G0/660
FVH	(80°-90°)	12.4	0.2			G1/100
BL	(0°-30°)	374.0	5.8	B1/500		
BM	(30°-60°)	822.8	12.8	B1/1000		
BH	(60°-80°)	259.2	4.0	B1/500		G1/500
BVH	(80°-90°)	15.3	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	72°	75°	85°
0°	894.0	894.0	894.0	894.0	894.0	894.0	894.0	894.0	894.0	894.0	894.0
2.5°	1149.9	1142.7	1121.3	1114.1	1088.7	1042.6	1026.7	979.8	960.0	941.7	920.2
5°	1454.2	1420.9	1418.5	1377.9	1319.1	1285.0	1183.3	1114.9	1052.1	1020.3	961.5
7.5°	1648.1	1648.9	1648.9	1615.6	1568.7	1482.0	1390.7	1267.5	1172.9	1126.0	1025.9
10°	1832.5	1816.6	1807.9	1804.7	1772.9	1688.7	1590.9	1438.3	1308.8	1254.0	1074.4
12.5°	1962.8	1949.3	1969.2	1958.8	1935.8	1881.0	1788.8	1614.8	1452.6	1378.7	1152.3
15°	2024.8	2034.3	2050.2	2078.8	2068.5	2047.8	1946.1	1795.9	1607.6	1524.2	1221.4
17.5°	2120.2	2093.9	2113.0	2148.8	2177.4	2167.8	2109.8	1927.1	1761.0	1658.5	1314.4
20°	2186.9	2171.8	2181.4	2222.7	2244.1	2298.2	2268.0	2098.7	1908.0	1799.9	1424.0
22.5°	2377.6	2355.4	2324.4	2330.7	2338.7	2376.8	2384.0	2287.0	2078.8	1964.4	1528.1
25°	2612.9	2592.2	2555.6	2518.3	2495.2	2488.1	2512.7	2434.9	2242.5	2124.1	1640.2
27.5°	2871.9	2837.0	2813.9	2736.8	2674.8	2665.3	2653.4	2611.3	2436.4	2308.5	1766.5
30°	3123.8	3096.0	3065.0	2941.8	2877.5	2867.1	2808.3	2820.3	2647.0	2504.8	1909.6
32.5°	3314.5	3316.9	3246.2	3153.2	3092.8	3038.0	3016.5	3050.7	2917.2	2802.8	2069.3
35°	3468.7	3475.9	3408.3	3324.1	3258.9	3297.1	3287.5	3303.4	3239.8	3100.0	2255.3
37.5°	3618.9	3583.1	3510.8	3470.3	3436.1	3498.9	3580.0	3593.5	3605.4	3440.9	2471.4
40°	3643.5	3646.7	3604.6	3633.2	3590.3	3684.9	3873.2	3855.7	3904.2	3760.4	2705.8
42.5°	3608.6	3615.7	3632.4	3672.9	3776.2	3889.9	4169.6	4098.1	4156.9	4028.9	2933.9
45°	3551.4	3522.0	3542.6	3696.8	3875.6	4128.3	4440.6	4385.0	4365.9	4258.6	3205.7
47.5°	3278.0	3308.2	3372.6	3562.5	3831.1	4169.6	4632.9	4620.2	4677.4	4601.9	3452.8
50°	2898.9	2887.0	3011.0	3224.7	3571.2	4088.5	4622.6	4737.8	4861.0	4756.1	3563.3
52.5°	2171.0	2234.6	2341.1	2606.5	3100.8	3646.7	4396.9	4589.2	4689.3	4667.1	3474.3
55°	1372.4	1391.5	1455.8	1771.3	2216.3	2926.7	3769.1	4214.9	4393.7	4477.1	3392.4
57.5°	666.7	631.0	709.6	963.1	1280.2	1968.4	2906.9	3671.3	4059.9	4210.9	3214.4
60°	348.1	361.6	392.6	483.2	662.0	1021.9	1811.8	2446.8	3040.4	3272.4	2436.4
62.5°	288.5	293.2	313.9	359.2	440.2	588.1	925.0	1192.8	1550.4	1759.4	1385.9
65°	244.8	247.1	269.4	299.6	351.2	414.0	476.0	498.3	603.2	619.0	492.7
67.5°	204.2	206.6	230.5	259.1	292.4	309.1	325.0	323.4	335.3	330.6	329.8
70°	157.3	159.7	184.4	214.6	231.2	221.7	271.0	282.1	286.9	290.8	297.2
72.5°	113.6	118.4	137.5	158.9	150.2	172.4	223.3	240.0	246.3	248.7	256.7
75°	82.6	84.2	89.0	82.6	95.4	120.0	157.3	178.0	186.0	188.3	200.3
77.5°	36.6	37.3	38.1	47.7	61.2	74.7	93.8	110.5	121.6	124.8	127.9
80°	19.1	19.9	24.6	32.6	43.7	54.8	68.3	77.9	85.0	85.8	89.0
82.5°	11.9	12.7	17.5	23.0	31.0	40.5	50.1	58.0	63.6	64.4	65.2
85°	5.6	7.2	10.3	14.3	20.7	26.2	27.0	23.0	24.6	25.4	23.8
87.5°	1.6	2.4	3.2	2.4	3.2	3.2	4.0	4.8	4.8	4.8	5.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	894.0	894.0	894.0	894.0	894.0	894.0	894.0	894.0	894.0	894.0	894.0
2.5°	908.3	901.1	873.3	863.0	836.0	840.8	826.5	825.7	822.5	821.7	820.9
5°	930.6	908.3	874.9	849.5	834.4	832.8	822.5	822.5	825.7	828.0	822.5
7.5°	967.1	941.7	885.3	861.4	847.9	845.5	838.4	832.8	840.0	837.6	831.2
10°	1009.2	964.7	905.1	884.5	862.2	856.6	856.6	859.0	847.1	851.1	844.7
12.5°	1056.1	996.5	930.6	906.7	880.5	877.3	875.7	858.2	864.6	861.4	845.5
15°	1115.7	1033.1	963.1	922.6	900.4	886.1	865.4	862.2	858.2	850.3	843.1
17.5°	1180.1	1072.8	978.2	927.4	894.0	883.7	867.8	851.1	839.2	840.8	835.2
20°	1234.9	1109.4	983.8	932.1	889.2	869.4	844.7	834.4	821.7	820.9	820.1
22.5°	1300.1	1158.6	991.7	919.4	874.9	854.3	837.6	819.3	810.6	799.4	805.0
25°	1377.9	1177.7	993.3	912.3	864.6	828.0	819.3	799.4	796.3	780.4	783.5
27.5°	1434.4	1188.0	980.6	890.0	840.8	812.9	797.0	782.7	777.2	765.3	762.1
30°	1509.9	1203.9	953.6	862.2	816.9	785.9	776.4	773.2	757.3	744.6	743.0
32.5°	1595.7	1214.2	936.1	833.6	792.3	768.4	773.2	758.1	738.2	727.1	723.9
35°	1664.0	1218.2	892.4	801.0	775.6	760.5	754.9	751.8	723.1	712.8	704.9
37.5°	1768.1	1209.5	855.9	778.0	757.3	751.8	747.0	725.5	692.9	677.8	666.7
40°	1889.7	1207.1	809.0	745.4	739.8	746.2	731.9	698.5	653.2	636.5	628.6
42.5°	2006.5	1223.8	779.6	727.9	720.8	723.1	703.3	653.2	631.0	621.4	608.7
45°	2202.0	1258.7	731.1	700.9	697.7	696.1	672.3	619.8	607.1	595.2	592.8
47.5°	2378.4	1235.7	700.1	673.1	676.3	667.5	616.7	600.0	585.7	573.7	569.8
50°	2388.8	1180.9	656.4	651.6	652.4	637.3	588.8	577.7	559.4	551.5	545.9
52.5°	2334.7	1091.1	615.9	617.5	619.8	595.2	554.7	546.7	531.6	520.5	517.3
55°	2182.9	951.2	576.1	582.5	588.8	542.0	529.2	509.4	497.5	481.6	482.4
57.5°	1923.1	766.1	520.5	530.8	544.3	492.7	483.2	458.5	441.0	428.3	426.7
60°	1288.9	545.1	437.1	441.0	471.2	450.6	449.8	425.1	401.3	390.2	383.8
62.5°	760.5	416.4	377.5	373.5	372.7	384.6	404.5	395.7	364.8	343.3	349.7
65°	398.1	360.0	351.2	337.7	329.8	326.6	341.7	345.7	325.0	302.0	300.4
67.5°	334.6	334.6	327.4	322.6	311.5	298.0	288.5	275.7	272.6	266.2	258.3
70°	304.4	312.3	309.9	298.8	289.3	274.2	249.5	228.9	209.0	201.8	206.6
72.5°	265.4	273.4	273.4	267.8	255.1	232.0	208.2	184.4	167.7	155.0	153.4
75°	204.2	208.2	217.7	211.4	194.7	180.4	155.8	131.1	115.2	103.3	100.9
77.5°	130.3	136.7	136.7	135.9	124.0	110.5	94.6	77.1	65.2	56.4	54.0
80°	86.6	90.6	93.8	90.6	82.6	72.3	60.4	48.5	39.7	32.6	31.0
82.5°	63.6	68.3	70.7	67.5	59.6	51.7	42.9	34.2	25.4	19.9	18.3
85°	24.6	25.4	28.6	34.2	33.4	32.6	26.2	19.1	14.3	10.3	9.5
87.5°	6.4	5.6	6.4	6.4	5.6	4.8	4.8	4.8	4.8	2.4	3.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)